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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,849	01/21/2005	Tobias Georg Tolle	DE 020184	6182
24737 7590 01/18/2007 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			BAISA, JOSELITO SASIS	
BRIARCLIFF	BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER
-			2832	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
	10/521,849	TOLLE ET AL.
Office Action Summary	Examiner	Art Unit
	Joselito Baisa	2832
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☒ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims	•	
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 1/21/2005 is/are: a) ☑ a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	accepted or b) objected to by t drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Receipt is acknowledged of a request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e) and a submission, filed on 6 December 2006.

Amendment to the claims has been considered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pilniak [EP 0522475] in view of Tanigawa et al. [5621636].

Regarding claims 1 and 15, Pilniak discloses a conductive plate 11 having an inductive function, which inductive function corresponds to a structure of at least one spiral-shaped slit formed in a single plane in the plate, spiral-shaped slit comprising at least two full 360° loops around a solid center portion 13.1 of the plate [Abstract, Figure 5a].

Pilniak discloses two full 360° spiral-shaped loops around a *solid center portion*, which is the inner most part of the winding 7a of the plate 11.

Applicant claimed a spiral-shaped slit around a solid center portion but in the specification, page 5, lines 19-24, applicant discloses the metal plate where inductances are produced by means of spiral slits has cut outs 50 to 56 where through magnetic materials project in order to close the magnetic circuit.

Pilniak discloses the instant claimed invention discussed above except for a circuit arrangement in the device.

Tanigawa et al. disclose a device with a circuit arrangement that includes an inductor [Col. 3, Lines 1-9, Figure 2].

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It would have been obvious to one having ordinary skill in the art at the time of the invention to use the conductive plate of Pilniak that has an inductive function to the circuit arrangement of Tanigawa et al.

The motivation would have been to provide a thin coil of high inductivity on a thin circuit board to save space for the structure [Col.2, Lines 10-20].

Regarding claims 2 and 16, Pilniak discloses that the structure of slits is formed by at least two spiral-shaped slits [Abstract, Figure 5a].

Regarding claim 3, Pilniak discloses the spiral-shaped slits are provided with a respective contact points in their central region and / or at least one further contact point 4 is arranged adjacent the spiral-shaped slits and /or between the central region and the periphery of a spiral-shaped slit [Figure 5a].

Regarding claims 4 and 5, Tanigawa et al. further disclose a printed circuit board 2, which supports the circuit arrangement and is electrically coupled to and supports the electrically conductive plate by way of the contact points [Col. 3, Lines 5-10, Figure 2a].

Regarding claim 6, Pilniak discloses an electrically conductive plate 11 that has the function of a plurality of coils, the number of which corresponds to the number of spiral-shaped slits [Claim 1].

Regarding claim 7, Pilniak discloses the electrically conductive plate 11 is formed as a sheet of metal [Abstract].

Regarding claim 8, Tanigawa et al. further disclose an insulating layer is provided between the printed circuit board and the electrically conductive plate [Col. 4, Lines 5-10].

Regarding claim 9, Tanigawa et al. further disclose that a layer of magnetic material 32, notably a ferrite material, is provided on at least one side of the electrically conductive plate [Col. 3, Lines 5-10, Figure 2a]

Regarding claim 10, Tanigawa et al. further discloses that there is provided an arrangement which comprises two layers of a magnetic material 32a, 32b where between the electrically conductive plate is arranged, on one outer side of the arrangement there being provided a printed circuit board 2 which is electrically coupled to the electrically conductive plate [Col. 3, Lines 3-10, Figure 2a].

Regarding claim 11, Tanigawa et al. further disclose a cooling layer 1 which consist of a suitably thermally conductive material, notably metal, and that components of the device which are to be cooled are arranged between the cooling layer 1 and the printed circuit board 2 [Col. 3, Lines 35-40, Figure 1b].

Regarding claim 12, Tanigawa et al. further disclose that either of the electrically conductive plate or the layer of the magnetic material is used for cooling [Col. 3, Lines 35-40, Figure 1b].

Regarding claims 13 and 14, the recitation of a multi-phase converter in a power supply, they cannot be relied upon to distinguish over the Tanigawa et al. reference because they are seen as intended use (i.e., when the claim is directed to a circuit device, any recitation concerning the environment in which the circuit device is employed is not part of the inventive circuit device). Only structural and functional limitations are given patentable weight.

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Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Joselito Baisa whose telephone number is (571) 272-7132. The examiner can normally be

reached on M-F 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin

Enad can be reached on (571) 272-1990. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

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Business Center (EBC) at 866-217-9197 (toll-free).

Joselito Baisa Examiner

Art Unit 2832

jsb

ELVIN ENAD SUPERVISORY PATENT EXAMINER